

# [System and Method for Determining User Identity Fraud Using Similarity Searching]

## Abstract of Disclosure

A method for verifying the identity of a new-user of a computer system, comprising the steps of receiving at least one identity attribute from the new-user; similarity searching the at least one new-user identity attribute against at least one database of denied-user identity attributes; receiving a similarity search result; determining a positive or negative match between the at least one new-user identity attribute and the denied-user identity attributes; allowing the new-user to access the computer system, where a negative match has been determined; and denying the new-user access to the computer system, where a positive match has been determined.

## Figures

Figure 1: A schematic diagram illustrating the relationship between the variables  $x$ ,  $y$ , and  $z$ . The diagram shows a central node  $x$  connected to nodes  $y$  and  $z$ . Node  $y$  is further connected to node  $z$ . The connections are labeled with the following expressions:

- From  $x$  to  $y$ :  $\frac{\partial x}{\partial y}$
- From  $x$  to  $z$ :  $\frac{\partial x}{\partial z}$
- From  $y$  to  $z$ :  $\frac{\partial y}{\partial z}$